

**Notice of Allowability**

Application No.

10/642,475

Examiner

Ashok B. Patel

Applicant(s)

BOYLAN ET AL.

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**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 01/25/2006.
2. ☒ The allowed claim(s) is/are 1-4,9-13,16-23,25-29 and 32-35.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some\* c) ☐ None of the:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
- (a) ☐ including changes required by the Notice of Draftperson's Patent Drawing Review (PTO-948) attached
- 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
- (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/SB/08), Paper No./Mail Date \_\_\_\_\_
4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413), Paper No./Mail Date \_\_\_\_\_
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_



**JOHN FOLLANSBEE  
SUPERVISORY PATENT EXAMINER  
TECHNOLOGY CENTER 2100**

### **DETAILED ACTION**

1. Claims 1-4, 9-13, 16-23, 25-29 and 32-35 are allowed. Claims 5-8, 14, 15, 24, 30, 31 and 36-43 are cancelled.

### **EXAMINER'S AMENDMENT**

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it **MUST** be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Leonard Hope on 5/11/2006.

3. The application has been amended as follows:

- A. In the claims:

- a. Claims 5-8, 14, 15, 24, 30, 31 and 36-43 are cancelled.
    - b. Claim 1. (Currently amended) A computer-implemented method of illustrating networking addresses, comprising:

accessing definitional information of a set of the networking addresses, the definitional information defining one or more attributes for the networking addresses of the set; and

rendering a display of the set of networking addresses wherein the display provides a first visual indicator for networking addresses having a first value of a first attribute and a second visual indicator for networking addresses having a second value of the first attribute, the display comprising an N by N grid having  $N^2$  individually

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selectable rectangles, each rectangle corresponding to between one and  $1/N^2$  of the set, and wherein each rectangle is displayed with either the first visual indicator or the second visual indicator, wherein N is an integer having a value two or higher.

c. Claim 22 (Currently Amended) A computer system for illustrating networking addresses, comprising:

storage containing definitional information of a set of the networking addresses, the definitional information defining one or more attributes for the networking addresses of the set;

a display device; and

a processing device configured to initiate a display of the set of networking addresses on the display device, wherein the display comprises an N by N grid having  $N^2$  individually selectable rectangles, each rectangle corresponding to between one and  $1/N^2$  of the network addresses of the set, and wherein each rectangle is displayed with either a first visual indicator for networking addresses having a first value of a first attribute or a second visual indicator for networking addresses having a second value of the first attribute, wherein N is an integer having a value two or higher.

d. Claim 22 (Currently Amended) A computer readable storage medium containing instructions that when ~~performed~~ executed by a computer perform the steps of:

determining values of an attribute for a plurality of networking addresses;

rendering a display of the plurality of networking addresses wherein the display comprises an N by N grid having  $N^2$  individually selectable rectangles, each rectangle corresponding to between one and  $1/N^2$  of the network addresses of the set, and

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wherein each rectangle includes a first indicator for networking addresses having a first value for the attribute or a second indicator for networking addresses having a second value for the attribute, wherein N is an integer having a value two or higher.

B. In the Specification, page 9, line 12-31 should read as follows:

By way of example, and not limitation, computer-readable media may comprise computer storage media ~~and communication media~~. Computer storage media include volatile and non-volatile, removable and non-removable media implemented in any method or technology for storage of information such as computer-readable instructions, data structures, program modules or other data. Computer storage media include, but is not limited to, RAM, ROM, EPROM, EEPROM, flash memory or other solid state memory technology, CD-ROM, DVD, or other optical storage, magnetic cassettes, magnetic tape, magnetic disk storage or other magnetic storage devices, or any other medium which can be used to store the desired information and which can be accessed by the computer.

~~Communication~~ Transmission media typically embody ~~computer-readable instructions, data structures, program modules or other data~~ in a modulated data signal such as a carrier wave or other transport mechanism and includes any information delivery media. The term "modulated data signal" means a signal that has one or more of its characteristics set or changed in such a manner as to encode information in the signal. By way of example, and not limitation, ~~communication~~ transmission media include wired media such as a wired network or direct-wired connection, and wireless media such as acoustic, RF, infrared, and other wireless media. Combinations of any of

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the above should also be included within the scope of computer-readable media. Computer-readable media may also be referred to as computer program product.

#### **REASONS FOR ALLOWANCE**

4. The following is an examiner's statement of reasons for allowance:

None of the prior arts of record teach or suggest the claimed limitation with respect to wherein the display comprises an  $N$  by  $N$  grid having  $N^2$  individually selectable rectangles, each rectangle corresponding to between one and  $1/N^2$  of the network addresses of the set, and wherein each rectangle is displayed with either a first visual indicator for networking addresses having a first value of a first attribute or a second visual indicator for networking addresses having a second value of the first attribute, wherein  $N$  is an integer having a value two or higher, along with the other limitations included in the claim. None of the prior arts of record teach or fairly suggest the claimed limitations.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ashok B. Patel whose telephone number is (571) 272-3972. The examiner can normally be reached on 8:00am-5:00pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John A. Follansbee can be reached on (571) 272-3964. The fax phone

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number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Abp  
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